

ICD-10 Transition: Challenges and Opportunities for the 21st Century

May 2015

The Montana Hospital Discharge Data System





International Classification of Diseases (ICD)

- Statistical classification of diseases and health problems



International Classification of Diseases (ICD)

- Codes
 - Medical Billing (Clinical Modification)
 - Morbidity
 - Mortality



International Classification of Diseases (ICD)

- Ms. B has Type 1 diabetes without complications
 - ICD-9: 250.1; DM without mention of complication, Type I, not stated as uncontrolled
 - ICD-10: E10.9; Type 1 DM without complications



International Classification of Diseases (ICD)

- ICD-10-AM (Australia)
- ICD-10-CA (Canada)
- ICD-10-GM (Germany)
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- ICD-10-CM (USA)

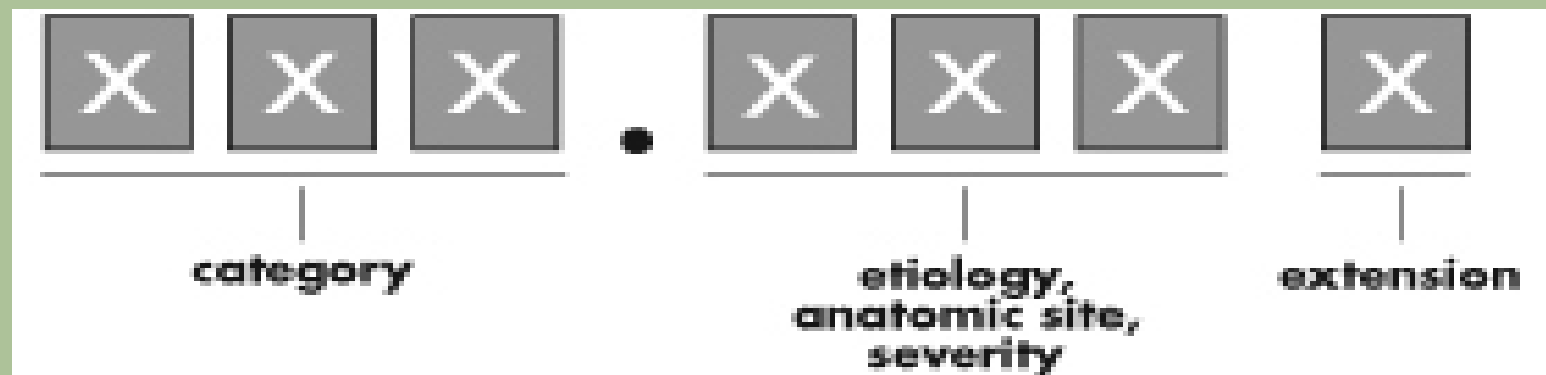


International Classification of Diseases (ICD)

- ICD-10-CM must conform to WHO conventions
- Changes at fifth, sixth, and seventh digits



Structure of ICD-10





Versions

- ICD-9: Ratified in 1975, still in use in United States for morbidity
- ICD-10: Ratified in the early 1990s, in use in mortality since 1999.



Versions

- ICD-10
 - 1995 - England
 - 1999 – Australia / US mortality
 - 2000 – Canada



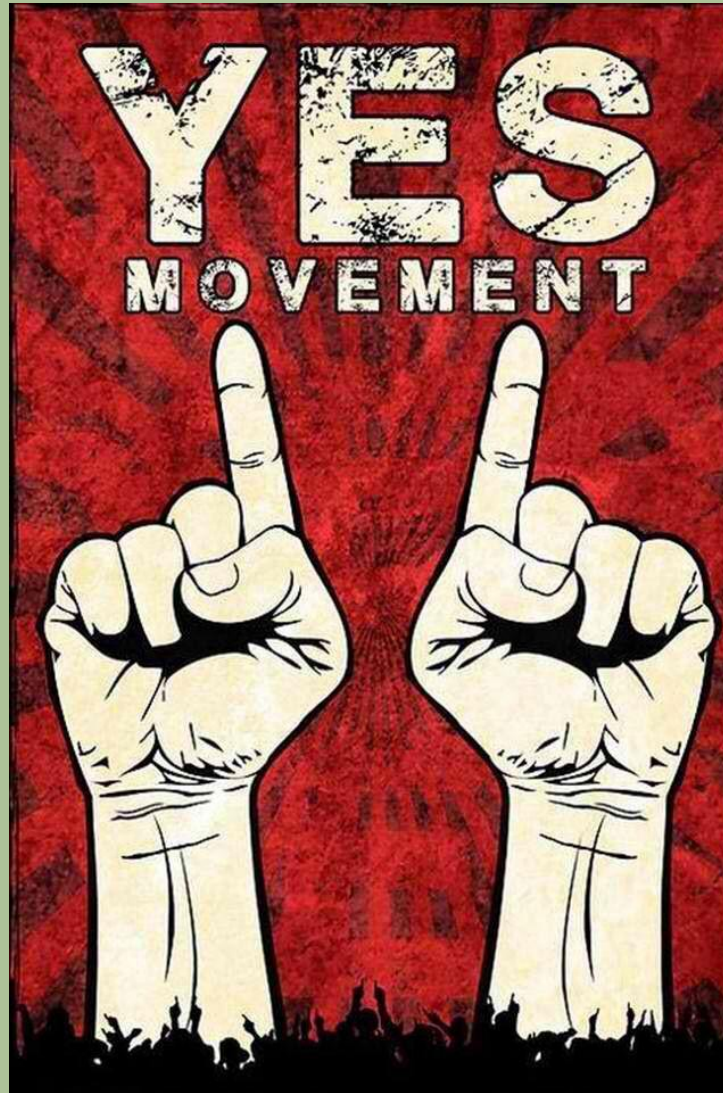
Versions

- ICD-9-CM to ICD-10-CM
 - Oct 1, 2015 – US transition date





ICD-10 Transition Date



ICD-10 Transition Date

- Medical Coders
 - AHIMA, AMBA
- Hospitals
 - AHA
- Insurers
 - BCBS Association, Anthem

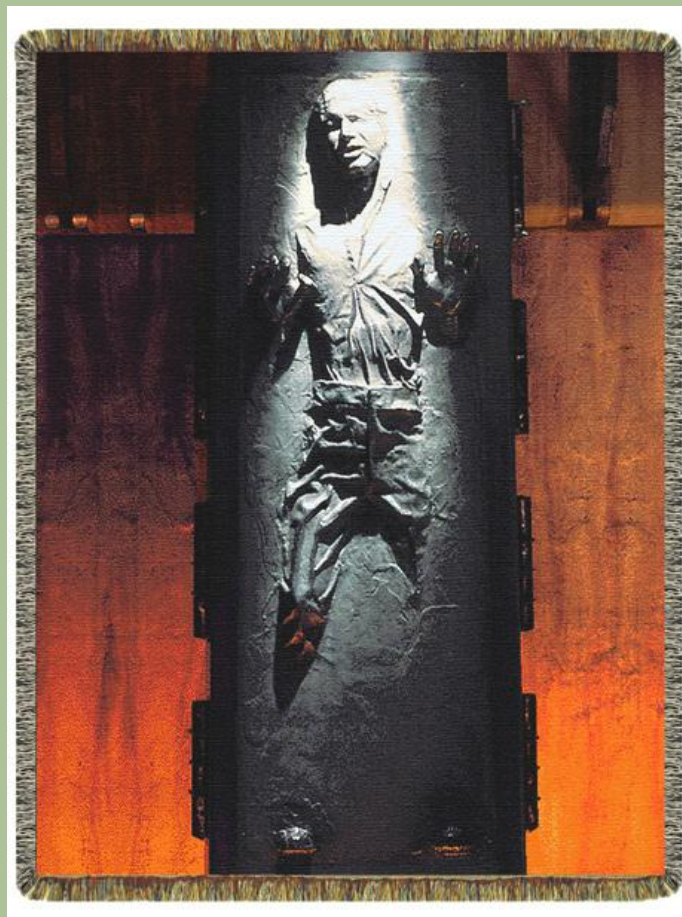


ICD-10 Transition Date

- “The vast majority of hospitals expect to be ready to transition to ICD-10 by Oct 1, 2014. There should be no further delay in moving.” – AHA July 2013



ICD-10 Transition Date



ICD-10 Transition Date

- “For more than a decade, the AMA kept ICD-10 at bay – and we want to freeze it in carbonite!” – Robert M. Wah, President of the AMA, Nov 2014



ICD-10 Transition Date

- ~~Oct 1, 2013~~: Jan 15, 2009
- ~~Oct 1, 2014~~: April 1, 2014
- Oct 1, 2015: ?



ICD-10 Transition Date

- Political History
 - Affordable Care Act (2010)
 - Protecting Access to Medicaid Act (2014)





ICD-10 Depth

- ICD – 9: 15,000 codes
- ICD – 10: 70,000 codes



ICD-10 Depth

- “Included among these codes will be 312 new codes for injuries from animals; 72 new codes for injuries just from birds; 9 new codes for ‘injuries from the macaw.’” – Rand Paul



ICD-10 Depth



ICD-10 Depth

- Basic structure
 - Digits 1-3 will now refer to the category
 - Digits 4-6 will cover clinical details such as severity, etiology, and anatomic site (among others), and are either alphabetic or numeric
 - Digit 7 will serve as an extension when necessary, and will be either alphabetic or numeric



ICD-10 Depth



ICD-10 Depth

- Ms. Jones is a 22-year-old university student that sustained a fall on left outstretched hand. She presented to clinic with obvious deformity and history, physical exam, and imaging consistent with left distal radius fracture (extra and intracular).



ICD-10 Depth

- Closed fracture of lower end of forearm, unspecified (813.40)
- Fall (E888.9)



ICD-10 Depth

- Fracture, radius, lower end, extraarticular, left, initial encounter for closed fracture. (S52.552A)
- ... intrarticular (S52.572A)
- Fall, unspecified, initial encounter (W19.XXXA)





ICD-10 Changes

- Codes for new diseases
 - Ebola
 - ICD-9-CM: 065.8 (Other specified arthropod-borne hemorrhagic fever)
 - ICD-10-CM: A98.4 (Ebola virus disease)



ICD-10 Changes

- Laterality
 - S40.211: Abrasion of right shoulder
 - S40.212: Abrasion of left shoulder



ICD-10 Changes

- Phase of treatment
 - S40.211A: Abrasion of right shoulder (Initial encounter)
 - S40.211D: Abrasion of right shoulder (Subsequent encounter)



ICD-10 Changes

- Combination codes
 - Mild nonproliferative diabetic retinopathy due to uncontrolled Type II diabetes



ICD-10 Changes

- Combination codes
 - ICD-9-CM: **250.50** (Diabetes with ophthalmic manifestations, Type II, not stated as uncontrolled); **362.03** (Mild nonproliferative diabetic retinopathy)
 - ICD-10-CM: **E11.329** (Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema)



ICD-10 Changes

- External Cause Place of Occurrence
 - ICD-9: 10 Codes
 - ICD-10: Hundreds of codes



ICD-10 Changes

- Ms. Jones is a 22-year-old university student that sustained a fall on left outstretched hand while assisting a patient in the bathroom of the nursing home where she works.



ICD-10 Changes

- ICD-9-CM: E849.7 (Residential institution)
- ICD-10-CM: Y92.12 (Bathroom in nursing home)





ICD-10 Impact

- Mortality

20 National Vital Statistics Report, Vol. 49, No. 2, May 18, 2001

Table F. The 10 leading causes of death in 1996 classified by *International Classification of Diseases, Ninth and Tenth Revisions*

Rank	ICD-9 ¹ titles and codes	ICD-10 ¹ titles and codes
1	Diseases of heart (390-398,402,404-429)	Diseases of heart (I00-I09,I11,I13,I20-I51)
2	Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues (140-208)	Malignant neoplasms (C00-C97)
3	Cerebrovascular diseases (430-438)	Cerebrovascular diseases (I60-I69)
4	Chronic obstructive pulmonary diseases and allied conditions (490-496)	Chronic lower respiratory diseases (J40-J47)
5	Accidents and adverse effects (E800-E949)	Accidents (unintentional injuries) (V01-X59,Y85-Y86)
6	Pneumonia and influenza (480-487)	Diabetes mellitus (E10-E14)
7	Diabetes mellitus (250)	Influenza and pneumonia (J10-J18)
8	Human immunodeficiency virus (HIV) infection (*042-†044)	Alzheimer's disease (G30)
9	Suicide (E950-E959)	Human immunodeficiency virus (HIV) disease (B20-B24)
10	Chronic liver disease and cirrhosis (571)	Intentional self-harm (suicide) (X60-X84, Y87.0)

¹ICD-9 is *International Classification Diseases, Ninth Revision*, and ICD-10 is *International Classification of Diseases, Tenth Revision*.

$D_{ICD-9}^{CM} = D_{ICD-9} \cdot C_i$

data. Theoretically, the classification and coding rules for ICD-10 should generally be applied uniformly regardless of demographic char.



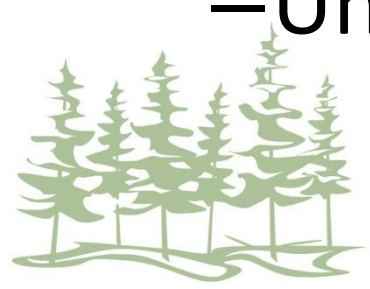
ICD-10 Impact

- Minimal initial impact on hospital payments
 - 98.93% of Diagnosis Related Groups (MS-DRGs) the same
 - .04% change in payments
- Additional detail simplifies billing



ICD-10 Impact

- Difference Mortality vs Morbidity
 - Primary diagnosis
 - MS-DRG
 - 88 Concussion w MCC
 - 89 Concussion w CC
 - 90 Concussion w/o CC/MCC
 - Underlying cause



ICD-10 Impact

- Medical record
 - Documentation





